



#4/A  
Jan 6-7-02

PATENT  
Atty. Docket No.: 12126

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:

Guoping ZHANG

Appln. Serial No.: 09/852,033

Art Unit: Unassigned

Filed: May 10, 2001

Examiner: Unassigned

For: **MAGNETIC RESONANCE IMAGING  
SEQUENCE DESIGNER**

**FIRST PRELIMINARY AMENDMENT**

Assistant Commissioner of Patents  
Washington, D.C. 20231

Sir:

Please amend the application as follows:

**IN THE SPECIFICATION:**

Please replace the paragraph beginning on page 11, line 9, with the following paragraph:

*A1*  
*Sub B*  
--The present invention may be more readily understood with reference to FIGURE 1 in which an exemplary magnetic resonance imaging (MRI) unit 150 as implemented in a preferred embodiment of the present invention is generally depicted. A specimen aperture 155 is centrally located within the bulk of the MRI unit 150 scanning apparatus. Surrounding the specimen aperture 155 are gradient coils 180, transmitter coils 190 and receiver coils 195. The gradient coils 180 provide the gradient waveform for facilitating selective excitation, echo formation and localization, among other purposes, as is understood in the art. Generally, the gradient coils are responsible for generating the gradient field in corresponding axes in mutually orthogonal directions, e.g., designated according to the Cartesian x, y and z